

AN 1975:606344 CAPLUS
 DN 83:206344
 OREF 83:32487a,32490a
 ED Entered STN: 12 May 1984
 TI Phthalocyanine derivatives
 IN Dabrowski, Roman; Witkiewicz, Zygfryd
 PA Wojkowska Akademia Techniczna, Pol.
 SO Pol., 4 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 CC 28-25 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 27

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 72892	A5	19740830	PL 1970-144675	19701127
PRAI PL 1970-144675	A	19701127		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
PL 72892	IPCI	C07D0027-76

GI For diagram(s), see printed CA Issue.
 AB The phthalocyanines I [A = a substituted benzene or benzoquinone ring II or II [R1 = H, alkyl, aryl, picryl, or COR3 (R3 = lower alkyl)]; R2 = H, Cl, Br, I; n = 0, 1, 2; M = Cu, Co, Ni, Fe, Mn, Mg] of high sp. elec. conductivity (5 + 10-16 Ω cm) were obtained by heating 2,3-dicyanohydroquinone (IV), 2,3-dicyanobenzoquinone or their mono- or disubstituted halo derivs. or IV ethers or esters with metal oxides. Thus, a mixture of 20 g IV.2H2O, 1.84 g Cu2O, and 150 ml diethylene glycol was heated 3 hr to 200° to give Cu 1,1',1'',1''',4,4',4'',4'''-octahydrohydroxyphthalocyanine in 70% yield.
 ST phthalocyanine; cyanohydroquinone copper oxide cyclization
 IT Electric conductors
 (copper octahydroxyphthalocyanine)
 IT Ring closure and formation
 (of dicyanohydroquinone with cuprous oxide, phthalocyanines from)
 IT 4733-50-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclization of, with copper oxide)
 IT 1317-39-1, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclization of, with dicyanohydroquinone)
 IT 57418-88-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, for elec. conductors)
 OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 UPOS.G Date last citing reference entered STN: 16 Feb 2009
 OS.G CAPLUS 2003:869506; 2003:555949; 2000:374335
 IT 57418-88-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, for elec. conductors)
 RN 57418-88-9 CAPLUS
 CN Copper, [29H,31H-phthalocyanine-2,4,8,11,15,18,22,25-octolato(2-)-N29,N30,N31,N32]-, (SP-4-1)- (9CI) (CA INDEX NAME)

